BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 500000.00

Name of Work: Detailed Estimate for the work of Maintenance of Existing Borewells at village areas in ward No- 02 of yelahanka Sub Division.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Lifting of Submersible Pump set (P,56/I.10.3.21 RDED SR (2012-13)	No	2				2	850.00	1700.00
2	Transportataion of pumping machineries (P.46/I.10.3.19)RDED SR (2012-13)	No	2				2	900.00	1800.00
3	A) Repairs to Motor:Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6months. RDED SR (2012-13)P NO.54/ I,NO.A)								
	a) -Do - above 3HP upto 5HP	No	2				2	2500.00	5000.00
	b) -Do - above 5HP upto 10HP	No	2				2	3700.00	7400.00
	(Above 5HP upto 10HP add Rs.120/- for every 1/2 HP)								
	B) Replacement of Motor Parts:								
4	Above 5HP Stator (with one year Gurantee) No.55/Ino.10.3.3C(2)RDED SR (2012-13)	No	2				2	5050.00	10100.00
5	Upto 5HP Rotor (with one year Gurantee) P.No.55/I .10.3.6C(2)RDED SR (2012-13)	No	2				2	4700.00	9400.00
6	Upper Flange P.No.55/I No.10.3.7 RDED SR (2012-13)	No	2				2	350.00	700.00
7	Lower Housing P.No.56/I No.10.3.10 RDED SR (2012-13)	No	2				2	650.00	1300.00
8	Lower Flange P.No.55/I No.10.3.8 RDED SR (2012-13)	No	2				2	350.00	700.00
9	a) Carbon Housing P.No.56/I No.10.3.12 RDED SR (2012-13)	No	2				2	475.00	950.00
10	b) Thrust bearing block assembly complete with Segment bearing pad P.No.56/I No.10.3.13 RDED SR (2012-13)	No	1				1	1150.00	1150.00
11	c) Tip Carbon /Ferrodo pading P.No.56/I No.10.3.14RDED SR (2012-13)	No	2				2	150.00	300.00
12	Bearing (Gun metal)Centrifugal cast Aluminium Bronze, bearing bush P.No.56/I No, RDED SR (2012-13)	No	2				2	400.00	800.00
13	Motor Base with pin P.No. 56/ I No.10.3.18 RDED SR (2012-13)	No	2				2	475.00	950.00
14	Re-erection charges of pumping machineries including overhauling and painting P.No.56/I No 10.3.20,RDED SR (2012-13)	No	1				1	950.00	950.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
15	Labour Charge (overhauling Motor only) **P.No.56/ I No.10.3.22 RDED SR (2012--13)**	No	1				1	550.00	**550.00**
16	C) Replacement of pump parts: The following main components of submersible pump sets requiring replacement Pump bowls **P.No.54 / I No B1 RDED SR (2012-13)10.2.1**	No	2				2	700.00	**1400.00**
17	Intermediate piece (I.P) with IP leaded bronze bush **P.No. 54/ I No.10.2.2B2 RDED SR (2012-13)**	No	2				2	450.00	**900.00**
18	Oil seal **P.No. 54/ I No.10.2.3 B3 RDED SR (2012-13)**	No	2				2	125.00	**250.00**
19	Oil seal steel bush **P.No. 54/ I No.B410.2.4 RDED SR (2012-13)**	No	2				2	150.00	**300.00**
20	Guide vane Pno 54/I No B5 RDED (2012-13) 10.2.5	No	2				2	175.00	**350.00**
21	Impeller (shell moulded with aluminium and Bonze) P No 39/ I no B6 RDED SR 2002-03	No	2				2	425.00	**850.00**
22	a) Discharge outlet (D.O) Bearing D.O Steel Bush **P.No. 54/ I No.10.2.6B7 RDED SR (2012-13)**	No	2				2	445.00	**890.00**
23	b)D.O Bearing **P.No. 54/ I No.B7 RDED SR (2012-13)10.2.7**	No	2				2	285.00	**570.00**
24	Steel bush (D.O) steel bush) **P.No. 54/ I No.10.2.9 B8 RDED SR (2012-13**	No	2				2	150.00	**300.00**
25	Allen Screw **P.No. 54/ I No.10.2.10 RDED SR (2012-13**	No	3				3	25.00	**75.00**
26	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) **P.No. 55/ I No.10.2.11 RDED SR (2012-13)**	No	2				2	950.00	**1900.00**
27	Pump key (Stainless steel) **P.No. 55/ I No.10.2.12 RDED SR (2012-13)**	No	2				2	125.00	**250.00**
28	Pump coupling (stainless steel) **P.No. 55/ I No.10.2.1312RDED SR (2012-13**	No	1				1	250.00	**250.00**
29	Non - Return valve (NRV) assembly complete with rubber 'O' Ring **P.No. 55/ I No10.2.14 RDED SR (2012-13)**	No	1				1	1350.00	**1350.00**
30	Cabble guard **P.No. 55/ I No.10.2.15 RDED SR (2002-03)**	No	1				1	150.00	**150.00**
31	Strainer **P.No. 40/ I No.15RDED SR (2012-13)**	No	1				1	150.00	**150.00**
32	Providing and fixing 50 mm dia heavy duty coller **SE RDED Approved rate**	No	2				2	130.00	**260.00**

Enclose approved rate Copy

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
33	KSRB 2-1.1:Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.1, PWD SR 15-16	Cum							
	for PVC pipe		1	680.00	0.45	0.90	275.40		
							275.40	283.02	77943.71
	Basic Rate	267.00							
	6% area weightage	16.02							
	Total	**283.02**							
34	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., **Page No.12 item No.3.4.2 b PRED SR 2012-13**	Rmtr							
	75 mm dia 6 KSC PVC pipe		1	340.00			340.00	157.00	**53380.00**
	63mm dia 6 KSC		1	340.00			340.00	112.00	**38080.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
35	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 15-16)	cum					275.40	76.32	21018.53
	Basic Rate	72.00							
	6% area weightage	4.32							
	Total	**76.32**							
36	Providing and constructing stand post of size 1.2m x 1.22m for public fountain with stone posts of size 0.45x1.22x0.10m with top rounded with holes of 25mm size with stone pot rest of 0.45x0.30x0.20m with central dip and kerb stone 8 cms thick 20cms wide alround with top rounded with cement concrete plat form 1:2:4 proportion 10cms thick and smooth finishing with cement mortor 1:3 to the exposed faces with necessary frame work and curing including two line dressing to all stones exposed and construction of lead off drains as per directions of departmental officers and necessary earthwork excavation and disposing off the excavated earth as directed with all leads and lifts etc complete. P 20 Item No 3.16 of PRED SR for 2012-13	Each	10				10.00	2788.21	27882.10
	Basic Rate	2707.00							
	3% area weightage	81.21							
	Total	**2788.21**							
36	Cleaning of borewells including yeild testing of Borewell either using Slow or fast Rig for not more than 2 hours at the final depth with a minimum working of 2 hours continuously with air compressor or suitable pump as per specification including the cost of consumbles etc complete P 49 item no 9.5 of PRED SR 2012-13	Each	2				2.00	10431.84	20863.68
	Basic Rate	10128.00							
	3% area weightage	303.84							
	Total	**10431.84**							

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
37	Logging/scanning of borewell at any depth continuously with the help of Logger unit including the cost of transportation charges, crew charges, stationery charges and cost of consumables etc. P 49 Item no 9.7	Each							
	Nagenahalli layout and Nagenahalli water tanker		3				3.00	1646.97	4940.91
	Basic Rate	1599.00							
	3% area weightage	47.97							
	Total	**1646.97**							
37	Providing and constructing Platform in CC 1:2:4 proportion using hard granite of basalt or trap jelly of 20mm down size for india Mark - III (VLOM) hand pump as per approved drawing enclosed to the SR according to IS 13056:1991 (Unicef standards) including machine mixing laying tamping curing and smooth finishing to exposed faces in CM 1:3 with necessary moulds including earthwork excavation with all leads for materials etc complete. page No 50 Item No 9.11 RDED SR 2012-13	Each							
			3				3.00	7584.92	22754.76
	Basic Rate	7364.00							
	3% area weightage	220.92							
	Total	**7584.92**							
	construction of MINI WATER SUPPLY TANK								
1	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.3/ PWD SR 2015-16	cum							
	for mini tank		1	4.50	4.50	0.90	18.23		
							18.23	**188.68**	**3439.00**
	Basic Rate	178.00							
	Area Weightage @ 6%	10.68							
	Total	**188.68**							

Sl. No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
2	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 130 (SR 2015-16)	cum							
			Vide Item No. 1				18.23	84.02	1531.00
	Basic Rate for loading and unloading	68.00							
	Basic Rate for Haulage upto 4.00 k.m=1.28 X 2.20 X 4	11.26							
		79.26							
	Area Weightage @ 6%	4.76							
	Total	84.02							
3	KSRB-4-1.2 : Providing and laying in position plain cement concrete of mix **1:3:6 withOPC** cement at 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.465cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.2/ PWD SR 2015-16	Cum							
	including masanry bed and platéform		1	5.00	5.00	0.10	2.50		
							2.50	5139.94	12850.00
	Basic Rate	4849.00							
	Area Weightage @ 6%	290.94							
	Total	5139.94							
4	KSRB 5.2.3 Providing and constructing granite / trap / basalt rubble stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 23/ Item No. 5.6/ PWD SR 2015-16	Cum							
	below GL		1	4.00	4.00	0.60	9.60		
	above GL		1	4.00	4.00	0.80	12.80		
							22.40	4058.74	90916.00
	Basic Rate	3829.00							
	Area Weightage @ 6%	229.74							
	Total	4058.74							

Sl.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB-4-1.5 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.43cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in **foundation and plinth**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2 /P. No. 12/ Item No. 4.5/ PWD SR 2015-16	Cum							
	for platform and coping		1	5.00	5.00	0.10	2.50		
	for tank cover 3.14x1.2x0.075=0.28						0.28		
							2.78	**5880.88**	**16349.00**
	Basic Rate	5548.00							
	Area Weightage @ 6%	332.88							
	Total	**5880.88**							
5	RCC Pipes NP2 1200mm dia including collers Sl No 604 Code No 0830 Page No XXI PWD SR 2015-16	Mtrs							
			1	2.50			2.50		
							2.50	**4750.00**	**11875.00**
	Basic Rate	4750.00							
8	Providing, GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings)b50mm dia GI pipe (SR 15-16 PWD Page No XVII code No 509, 0154)B class Pipe 50mm dia	Rmtr							
			2	3.50			7.00		
							7.00	321.00	2247.00
	Basic Rate	321.00							
8	Labour charges for giving 50mm dia GI pipe end connection from rising main to cisten including cutting threading conveying laying and jointing etc complete inclusive of fixing 4 Nos of 20mm dia GI pipes with taps to the cisten P 19 Item no 3.13 of PRED SR 2012-13	Each							
			1				1.00		
							1.00	1429.64	1429.64
	Basic Rate	1388.00							
	3% area weightage	41.64							
	Total	**1429.64**							

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	Erection of RCC Hume pipe pump house / cisten on size stone masonry platform including transportation charges and handling with all necessary tools and plants complete as directed by the Engineer in charge of work. P 20 Item no 3.17 of PRED SR 2012-13	Each							
			1				1.00		
							1.00	1256.60	1256.60
	Basic Rate	1220.00							
	3% area weightage	36.60							
	Total	1256.60						Total	462702.00
									37016.16
	KRIDL Charges 8%								282.00
38	Miscelaneous and rounding off.							TOTAL	500000.00

(Rupees Five lakhs Only)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.

2 The Estimate is prepared as per the PRED SR 2012-13 and PW,P & IWTD SR 2013-14 and BWSSB Electrical SR 2013-14

3 The provisions were made in this estimate are necessary and adequate.

4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

Administrative Sanction for Rs. 5.00 Lakhs
Five Lakhs only
is accorded under head P-2415-2015-16
Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 5.00 Lakhs
Rupees Five Lakhs only.
Under P-2415-2015-16
Subject to conditions
Dt. EE/YNK/TS/ 115.16
Rs. 5.00 Lakhs
Executive Engineer

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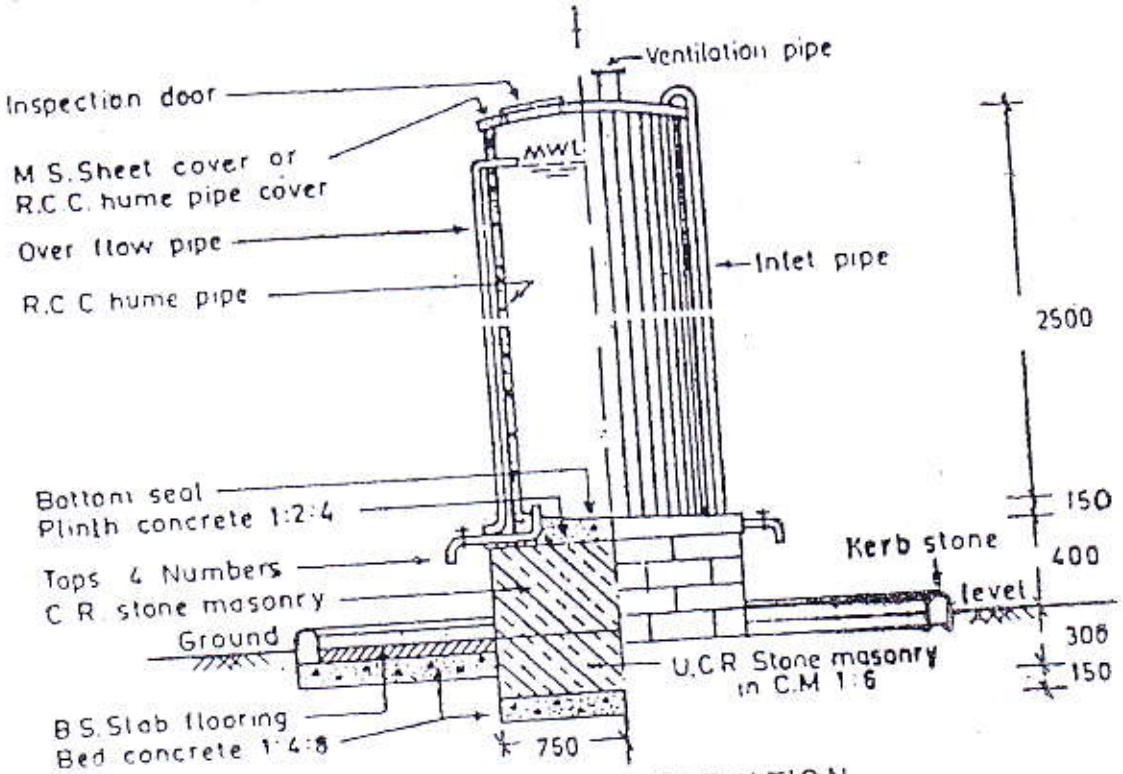
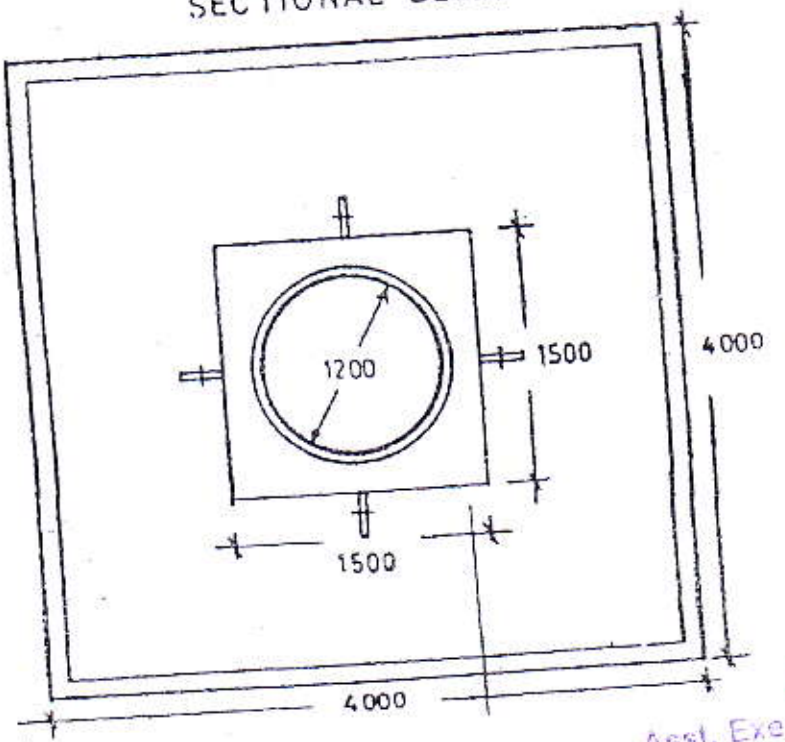
R.C.C. Hume pipe Cistern for Mini Water Supply Scheme

(All measurements in millimetres)



SECTIONAL ELEVATION



PLAN

Assl. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore